Distributed Systems

COMP90015 2019 Semester 1
Tutorial 8

Things to cover in Tutorial 8

Security Questions

SSL Explanation! Why do we need it?

Code Demonstration : SSL Demonstration

Security Questions

1. List and briefly explain some worst case assumptions when designing a secure system.
2. Define encryption and describe the two main types of keys used by encryption algorithms.
3. Discuss the three major roles that encryption plays in the implementation of secure systems.
4. Explain how digital signatures work.

Security Questions

5. How does Alice send a secret message to Bob if they both share a secret key?
6. How can Alice authenticate and communicate secretly with Bob assuming there is an authentication server that knows Alice's and Bob's secret keys?
7. Assuming that Bob has a public/private key pair, how can Alice and Bob establish a shared key to communicate secretly using a Key Distribution Service?